

# Fahim ur Rehman

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## Summary

Principal Consultant – DevOps with over 7 years of experience in designing and architecting cloud solutions across AWS, GCP and Azure. Expertise in building automated CI/CD pipelines, containerization using Kubernetes (EKS, GKE, on-premises), and implementing Infrastructure as Code with Terraform and Ansible. Proven track record in enhancing software delivery velocity, reliability, and security. CKA | AWS Certified Solutions Architect | Terraform with a BS in Computer Science

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## Skills

AWS, Azure, Terraform, Ansible, Docker, Kubernetes, CI/CD, Linux, ArgoCD, RDS / DBS, Blogging, Monitoring

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## Experience

### PRINCIPAL DEVOPS ENGINEER

Systems Limited, Pakistan

05/2023 - Present

- Architected scalable cloud solutions for AWS and Azure, resulting in improvements in deployment efficiency and system reliability.
- Developed and optimized CI/CD (Github Actions, Jenkins, GitlabCI) pipelines, automating the deployment processes.
- Managed and scaled AWS ECS, EKS, AKS, and GKE (Kubernetes environment), ensuring 99.9% uptime and seamless application deployments.
- Designed microservice architectures, streamlining Git-based release management to improve code integration and deployment timelines.
- Implemented GitOps workflows via ArgoCD, ensuring continuous delivery and automated application state sync to Kubernetes clusters.
- Implemented infrastructure as code (IaC) using Terraform and Ansible, reducing manual provisioning efforts.
- Developed and optimized Azure DevOps pipelines incorporating IaC scanning tools such as SonarQube, Terratest, BlackDuck, Snyk, and Orca, ensuring code quality, security, and compliance across IAC deployments.
- Enhanced AI service delivery by leveraging AWS Bedrock and SageMaker for building, training, and deploying machine learning models
- Delivered technical expertise in cloud architecture, guiding clients and internal teams on cost-optimized AWS solutions, leading to a 25% reduction in operational costs.

### CLOUD ENGINEER / SITE RELIABILITY ENGINEER

abl solutions GmbH , Germany

01/2023 - 01/2024

- Designed and implemented scalable cloud solutions on GCP and Hetzner, addressing client requirements.
  - Automated software delivery processes by developing deployment pipelines using Cloud Build.
  - Administered and optimized Kubernetes clusters GKE and Hetzner Cloud dedicated servers.
  - Created Kubernetes manifest files for deployments, services, ingress, configmaps, and secrets, and developed Helm charts to streamline and standardize application deployments.
  - Architected microservices frameworks, streamlining Git-based release workflows and ensuring integration with CloudRun for Anthos for modern application deployments.
  - Designed and maintained data pipelines using BigQuery and Pub/Sub.
  - Automated infrastructure provisioning using Terraform and Ansible.
- .Optimized cloud storage solutions on GCP Cloud Storage, IAM & Admin, to ensure secure access to cloud resources

## SR. DEVOPS ENGINEER

Tkxel , Pakistan

08/2021 - 05/2023

- Demonstrated AWS expertise, driving system architecture development, automation, Linux administration, and network design to improve operational efficiency.
- Created and maintained fully automated CI/CD (Jenkins, Github Actions) pipelines
- Managed microservices architecture across AWS ECS, AWS EKS, Google Kubernetes Engine (GKE), and on premises solutions (Kubeadm), achieving 99.9% uptime and streamlined application deployments
- Designed and implemented data pipelines integrating Snowflake, AWS Glue for ETL, S3, Athena, and QuickSight, enabling efficient data transformation, querying, and visualization.
- SageMaker and Flywheel to build, train, and deploy machine-learning models.
- Deployed AWS Comprehend for media text moderation, utilized AWS Rekognition for image and video analysis
- Designed and deployed infrastructure as code (IaC) with Terraform, enabling rapid provisioning of cloud and on premises resources

## Rebel Technology

DEVOPS ENGINEER, Pakistan

12/2019 - 08/2021

- Proven proficiency in core AWS services, leveraging hands-on experience to design and deploy scalable solutions.
- Specialized in containerization and orchestration, utilizing Docker, Amazon ECS, and AWS EKS
- Implemented security practices, including configuring IAM, designing a secure network with public and private subnets, NAT & Internet Gateways, NACL rules, and Security Groups to enhance access control and data protection
- Automated workflows and event-driven processes using AWS Lambda.
- Designed and managed interconnectivity between VPCs using VPC Peering and Transit Gateway
- Developed serverless architectures using Lambda, API Gateway, S3, DynamoDB, and Fargate services.
- Expertly deployed applications in PHP, Java, Node.js, Python, and similar technologies

## BrainPlow

DEVOPS ENGINEER, Pakistan

08/2017 - 12/2019

- Optimized on-prem Linux dedicated servers and cloud infrastructure to run Dockerized containers workload.
- Automated workflows and integrations using Jenkins and Github actions / GitLab, accelerating development cycles.
- Managed and optimized web servers, including Apache and Nginx / Nginx reverse proxy.
- Implemented highly available reverse proxy solutions using HAProxy, ELB, and Nginx.
- Managed Linux/Ubuntu servers, ensuring security through SSH hardening, UFW, and iptables, while configuring RAID 0 and 1 for optimized storage performance.
- Set up and managed on-premises and self-hosted database clusters for MySQL, PostgreSQL, and MongoDB, ensuring high availability and performance.
- Automated daily, weekly, and monthly database backups using cron jobs, securely storing them on dedicated storage for reliable disaster recovery.
- Configured virtual machines with Vagrant, Virsh, and VirtualBox CLI.

## PROJECTS

### BLOCKCHAIN PROJECT

A truly immersive collectible platform across Mobile, AR and VR with unique social, gaming and creative experiences, enabled by blockchain

#### Technologies:

AWS Codepipeline, Elastic Load Balancers, RDS, Route-53, Docker, Docker-Compose, Github, EKS/Kubernetes, Terraform, Prometheus, Ansible, Sonarqube, Linux.

## **DIGITAL TRANSFORMATION PROJECT**

Boutique marketing firm focused on clients amid digital transformation.

### **Technologies:**

Compute Engine, GKE, Cloud Run & Cloud Run for Anthos, Cloudbuild, IAM & Service Accounts, Cloud Storage and Cloud Functions.

## **FOOD RESTAURANT PROJECT**

Real food made on-site, in-site in our open-source kitchens

### **Technologies:**

EKS, Route53, API Gateway, CodePipeline, S3, SQS, SNS, Cloudwatch, WAF, Aurora, Cognito, ECR, Newrelic, Graylog

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## **Certificates**

CERTIFIED KUBERNETES ADMINISTRATOR (CKA), AWS SOLUTION ARCHITECT ASSOCIATE, TERRAFORM ASSOCIATE

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## **Education**

### **BS COMPUTER SCIENCES**

University of South Asia, Lahore, Pakistan  
08/2016

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## **Languages**

English, Urdu, Punjabi